Spe i Eco Ri

Bgl I Bst XI

15.7 7.3 9.9 12.5

6.6 7.6 14.3

Restriction Digest

Fragment Length wild type mutant

mutant

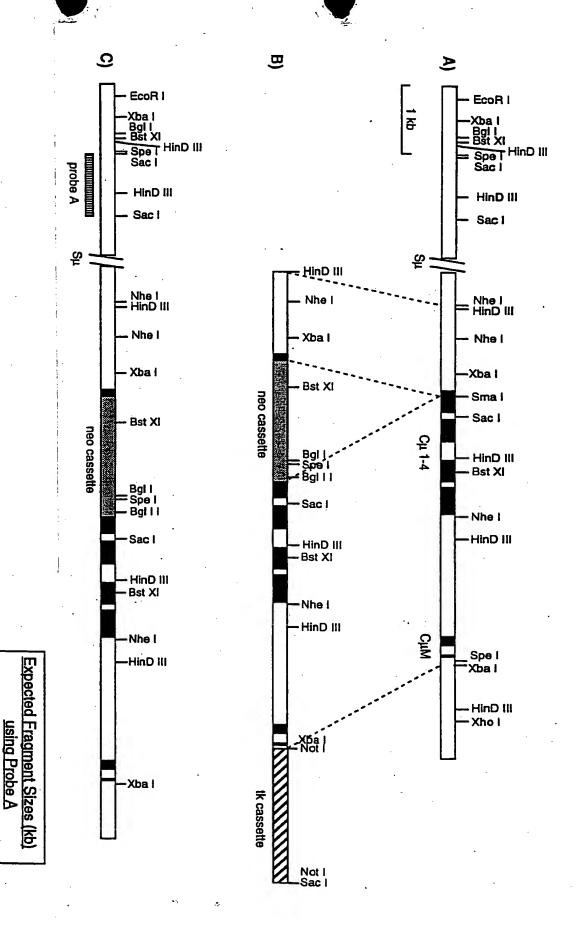


FIGURE 2

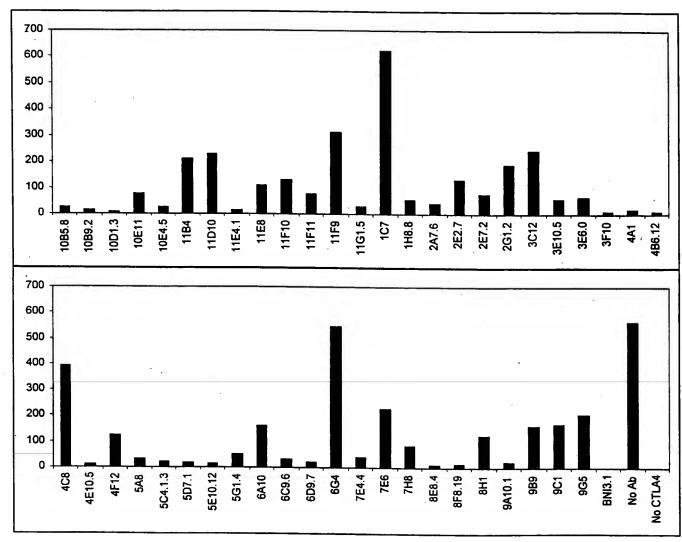
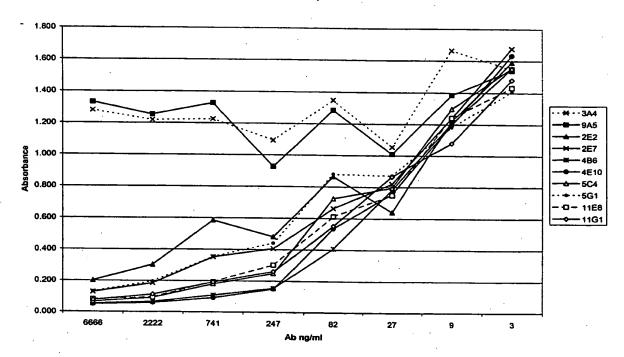


FIGURE 3

11E8 Competition



10D1.3 VH (SEQ ID NO:2)

TGGGGGAGGC GTGGTCCAGC CTGGGAGGTC CCTGAGACTC TCCTGTGCAG	50
CCTCTGGATT CACCTTCAGT AGCTATACTA TGCACTGGGT CCGCCAGGCT	100
CCAGGCAAGG GGCTGGAGTG GGTGACATTT ATATCATATG ATGGAAACAA	150
TAAATACTAC GCAGACTCCG TGAAGGGCCG ATTCACCATC TCCAGAGACA	200
ATTCCAAGAA CACGCTGTAT CTGCAAATGA ACAGCCTGAG AGCTGAGGAC	250
ACGGCTATAT ATTACTGTGC GAGGACCGGC TGGCTGGGGC CCTTTGACTA	300
CTGGGGCCAG GGAACCCTGG TCACCGTCTC CTCAGCCTCC ACCAAGGGC	349

10D1.3 VK (SEQ ID NO:3)

CTCCAGGCAC CC	TGTCTTTG	TCTCCAGGGG	AAAGAGCCA	C CCTCTCCTGC	50
AGGGCCAGTC AG	GAGTGTTGG	CAGCAGCTAC	TTAGCCTGG	T ACCAGCAGAA	100
ACCTGGCCAG GC	TCCCAGGC	TCCTCATCTA	TGGTGCATTC	CAGCAGGGCCA	150
CTGGCATCCC AG	ACAGGTTC	AGTGGCAGTG	GGTCTGGGA	C AGACTTCACT	200
CTCACCATCA GC					250
GCAGTATGGT AG	CTCACCGT	GGACGTTCGG	CCAAGGGAC	C AAGGTGGAAA	300
TCAAACGAAC TG	TGGCTGCA	C	321	,	

Figure 4

CDR2 CTC CTC ANT CTG ACG CAG TCC TCC ACG CTG ACC CTG GCC AAA GAA GAC ACC CTC TCC TCC ACG GCC ACT CTC ACC ACC CTC TCC ACC ACC CTC TCC ACC A	V _K L-15: 1E2:	V _K L-15: 1E2:	V _x L-15 Germline: 1E2:	V _K A-27: 10D1: 4B6:	V _K A-27: 10D1: 4B6:	V _x A-27: 10D1: 4B6:	V _x A-27: 10D1: 4B6:	V _x A-27 Germline: 10D1: 4B6:
FIG. 5	CDR2CDR2	GCG AGT CAG GGT ATT AGC AGC TGG TTA GCC TGG TAT CAG CAG AAA CCA GAG AAA GCC CCT AAG	ATC CAG ATG ACC CAG TCT CCA TCC TCA CTG TCT GCA TCT GTA GGA GAC AGA GTC ACC ATC	CDR3 J _K 1 CAG TAT GGT AGC TCA CC GTGG ACG TTC GGC CAA GGG ACC AAG GTG GAA ATC	GAC TTC ACT CTC ACC ATC AGC AGA CTG GAG CCT GAA GAT TTT GCA GTG TAT TAC	CDR2 CTC ATC TAT GGT GCA TCC AGC AGG GCC ACT GGC ATC CCA GAC AGG TTC AGT GGC AGT GGG TCT	GCC AGT CAG AGT GTT AGC AGC TAC TTA GCC TGG TAC CAG CAG AAA CCT GGC CAG GCT CCC AGG	ATT GTG TTG ACG CAG TCT CCA GGC ACC CTG TCT TTG TCT CCA GGG GAA AGA GCC ACC CTC TCC TGC

F1G.5

2 of 2

AGT TAC CCT CC --- --G ACG TTC GGC CAA GGG ACC AAG GTG GAA ATC AAA C/

V_K L-15: 1E2:

GAT TTC ACT CTC ACC ATC AGC AGC CTG CAG CCT GAA GAT TTT GCA ACT TAT TAC TGC CAA CAG TAT AAT

V_K L-15: 1E2:

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V _E 3-33: 1E2:	V _E 3-33: 1E2:	V _H 3-33 Germline: 1E2:	V _R 3-30.3: 10D1: 4B6:	V _H 3-30.3: 10D1: 4B6:	V _H 3-30.3: 10D1: 4B6:	V _H 3-30.3: 10D1: 4B6:	V _H 3-30.3 Germline: 10D1: 4B6:
CDR2 GCA GTT ATA TGG TAT GAT GGA AGT AAA TAC TAT GCA GAC TCC GTG AAG GGC CGA TTC ACC ATC TCC AGA	TCT GGA TTC ACC TTC AGT AGC TAT GGC ATG CAC TGG GTC CGC CAG GCT CCA GGC AAG GGG CTG GAG TGG GTG	CAG GTG CAG CTG GTG GAG TCT GGG GGA GGC GTG GTC CAG CCT GGG AGG TCC CTG AGA CTC TCC TGT GCA GCG	CDR3 D7-27 J _H 4b GCG AGA G ACC GGC TGG CTG GGG CCC TTT GAC TAC TGG GGC CAG GGA ACC CTG GTC ACC GTC TCA G/	GAC AAT TCC AAG AAC ACG CTG TAT CTG CAA ATG AAC AGC CTG AGA GCT GAG GAC ACG GCT GTG TAT TAC TGT	CDR2 GCA GTT ATA TCA TAT GAT GGA AGC AAT AAA TAC TAC GCA GAC TCC GTG AAG GGC CGA TTC ACC ATC TCC AGA A T	TCT GGA TTC ACC TTC AGT AGC TAT GCT ATG CAC TGG GTC CGC CAG GCT CCA GGC AAG GGG CTG GAG TGG GTG	CAG GTG CAG CTG GTG GAG TCT GGG GGA GGC GTG GTC CAG CCT GGG AGG TCC CTG AGA CTC TCC TGT GCA GCC

F1G. 6

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V_E 3-33: 1E2: GCG AGA GA --- -CT CCC AAT TAT ATT GGT GCT TTT GAT GTC TGG GGC CAA GGG ACA ATG GTC ACC GTC TCT TCA G/ J_H3b V_E 3-33: 1E2:

GAC AAT TCC AAG AAC ACG CTG TAT CTG CAA ATG AAC AGC CTG AGA GCC GAG GAC ACG GCT GTG TAT TAC TGT

FIG. 6 2092

V _x L-15: 1E2:	V _K L-15 Germline: 1E2:		V _K A-27: 1.0D1: 4B6:		V _x A-27 Germline: 10D1: 4B6:	
GVPSRFSGSGSGTDFTLTISSLQPEDFATYYC QQYNSY	DIQMTQSPSSLSASVGDRVTITC RASQGISSWLA WYQQKPEKAPKSLIY AASSLQS	CDR1	GIPDRFSGSGSGTDFTLTISRLEPEDFAVYYC QQYGSS	CDR3	EIVLTQSPGTLSLSPGERATLSC RASQSVSSSYLA WYQQKPGQAPRLLIY GASSRAT	CDR1

FIG. 7

V _H 3-33: RFT		V _H 3-33 Germline: QVQ 1E2:	V _H 3-30.3: RFTIS 10D1:	V _H 3-30.3 Germline: QVQ 10D1:
RFTISRDNSKNTLYLQMNSLRAEDTAVYYCAR	CDR3	<u>CDR1</u> CDR2	CDR3 RFTISRDNSKNTLYLQMNSLRAEDTAVYYCAR V	CDR1 CDR2 QVQLVESGGGVVQPGRSLRLSCAASGFTFS SYAMH WVRQAPGKGLEWVA VISYDGSNKYYADSVKG T T FT FH

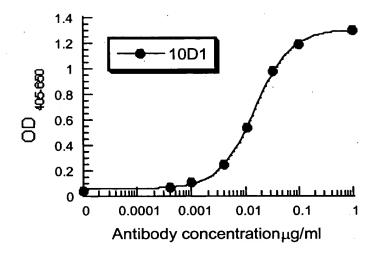


Figure 9

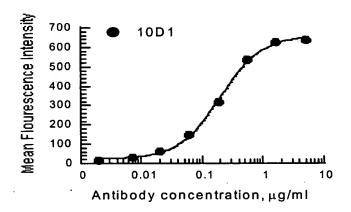


Figure 10

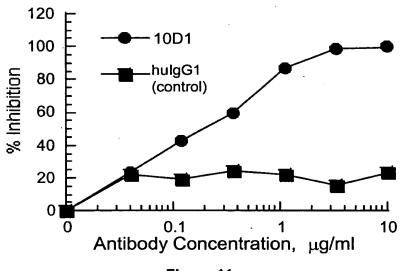


Figure 11

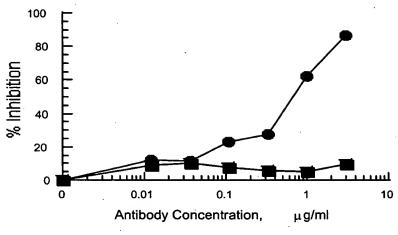


Figure 12

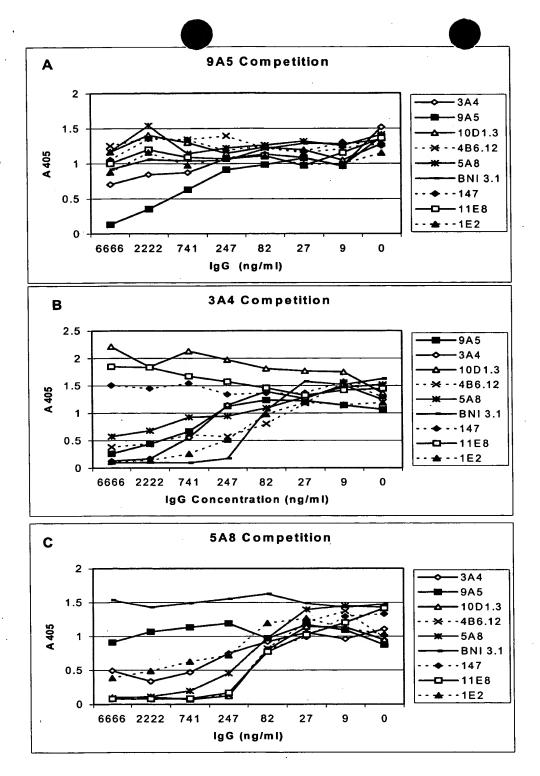
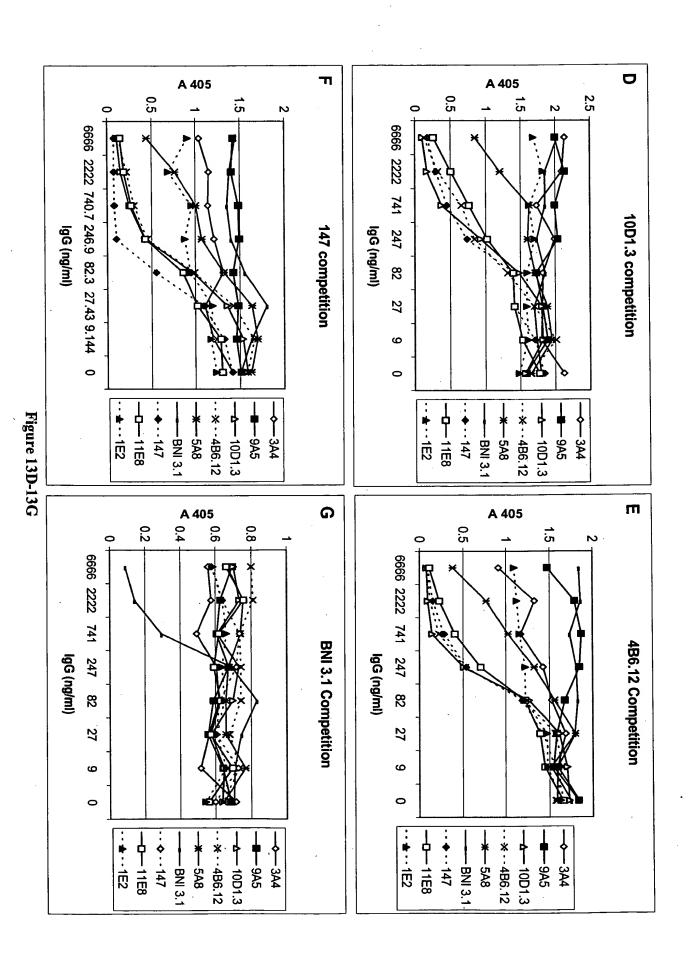
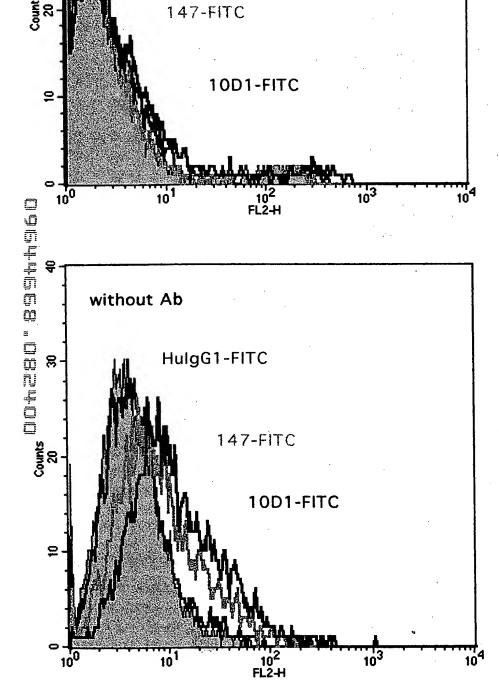


Figure 13A-13C

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Without Ab

HulgG1-FITC

PHA activated lymphocytes

10D1 Application FIG. 14

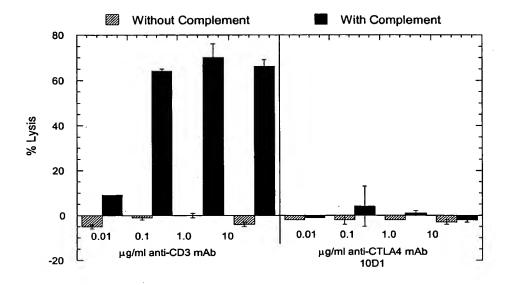


Figure 15

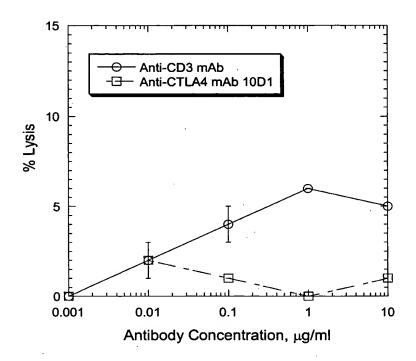


Figure 16.

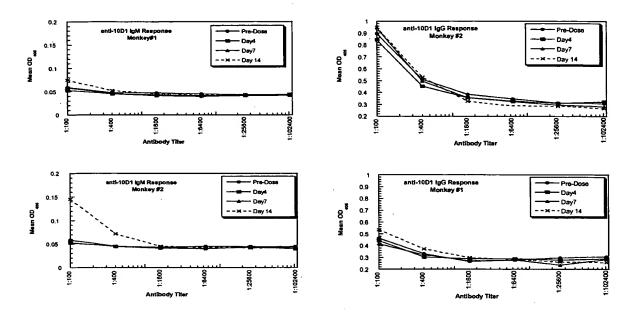


Figure 17

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	normal range																																						Amendment #			
		Scr	з	2	-	0	Scr	Scr	14	7	ω	2	1	Scr	21	14	7	3	2	1	0	Scr	Scr	Scr	Scr	Scr	Scr	Scr	Scr	28	21	=	7	3	2	_	0 8	ş	Dav			
high	low																																						Date			
7.00		4856.00				27.50	12.70	49.10	207.60	190.00				112.90		269.80	249.30				336.90	238.60	70.70	1394.00	4503.00	192.40	1459.00	12.70	28.30	351.00		332.30	257.40				185.20	144	ng/m	PSA		
	150	-	219	223	226	H	H	Н		Г	147	150		-	122	-	H	114	109	122			229	П	П	П	264	H	Н		***	1		270	240		267	╁	×10³/uL	Platelets	Selected Lab Values Summary	Study
10.70	3.80	7.31	4.89	5.59	5.74	5.88	5.65	8.53	5.64	4.95	4.36	4.82		5.85	4.82	3.68	3.38	3.79	4.05	3.35	3.92	3.70	4.67	5.78	7.55	6.85	6.26	5.49	11.60	5.38	9.72	6.87	6.70	6.53	6.59	6.31	5.74	-	J	s WBC	Lab Valu	Study No. MDXCTLA4-01
75.00	40.50	86.0	54.00	55.0	55.0	57.0	53.0	<u>65</u> .0	63.1	58.6	63.7	67.70		22	78.00	69.0	75.00	70.00	74.00	71.00	68.00	78.0	54.00	73.0	76.70	73.70	75.1	69.0	75.4	63.00	74.0	71.9	68.0	71.0	70.00	69.0	66.00	-	*		es Sui	CTLA
0 7.23	П		2.66		Г	1	Г		Г	T	Ι-	1		Т	0 3.76	Г		2.67	_	Г		Г	2.56	Г		Г	П	Г	Г	Г		П		П		П	3.79	7	×10 ³ /uL	Neuts	nmarv	5
48.50	15.40	5.00	34.00	32.00	35.00	32.00	34.00	26.00	29.30	32.70	29.30	26.40		28.00	13.20	21.20	17.00	21.00	19.00	22.00	21.00	14.00	32.00	13.00	15.90	17.40	14.40	19.60	13.60	26.00	19.70	21.20	23.00	21.00	19.00	20.00	22.00	18.00	%	_		
3.00		0.33	Г	Γ	Γ	Г	Г	2.23	Г	1.61	П	1.28			0.64	П			0.77	П	П	Г	1.52	Г	Γ	П	0.90	П	I					1.36			l	1.47	×10³/uL	.vmohs		
10.10	2.60	6.80	7.50	9.80	7.00	8.60	7.40	5.30	5.70	5.90	5.10	4.60		5.60	7.70	8.50	5.60	6.20	4.80	4.00	8.70	5.40	8.30	6.50	6.20	6.20	7.70	6.30	5.70	5.80	4.80	5.21	6.00	5.50	6.70	8.70	6.60	5.60	%	П		
0.92	0.12	0.49	0.37	0.55	0.40	0.50	0.42	0.46	0.32	0.29	0.22	0.22		0.33	0.37	0.31	0.19	0.23	0.20	0.14	0.34	0.20	0.39	0.37	0.47	0.43	0.48	0.35	0.66	0.31	0.46	0.36	0.40	0.36	0.44	0.55	0.38	0.46	x10³/uL	Monos		
6.80		1.98	2.70	1.40	1.40	1.50	3.90	2.30	1.60	2.50	1.30	1.5		8	0.89 80	1.8	0.70	1.30	1.20	1.80	1.50	1.20	3.40	6.00	0.80	2.20	2.40	2.70	4.60	2.90	<u>-1</u> .00	1.90	2.50	2.20	1.80	0.90	3.10	1.80	%			
0.57		0.14	0.13	0.08	0.08	0.09	0.22	0.20	0.09	0.12	0.06	0.05		0.06	0.03	0.04	0.02	0.05	0.05	0.06	0.06	0.04	0.16	0.35	0.06	0.15	0.15	0.24	0.53	0.16	0.10	0.13	0.17	0.14	0.12	0.06	0.18	0.15	x103/uL	Eos		
			529							842 2	544	552	642	746	218	308	244	313	328	307	374	211	461	376	319	483	365	325	399		Þ	Þ	>	68	556	>	704	670	È	유 4		
1129	220	7	3 <u>5</u> 8	339	405	389	439	398		506	4	380	475	451	195	173	161	265	220	192	188	162	499	127	363	217	129	68	8		Þ	P	Þ	2 <u>5</u> 4	303	>	376	_	Ē	CD8		
30														ō								å			83		61	19	41	1_									mm/hr	ESR		
	ľ	10.3	13.2	13.5	13.6	13.5	13.6	13.4	13.5	12.6	13.1	12.2		13.2	7.4	8.8	10.4	10.9	11.3	11.3	10.9	9.8	15.6	14.1		Ī	12.8	12./	13.9	e,	9.1	8.8	9.5	9.3	9,5	9.5	10.6	10.4	g/di	둏		
		t	37	t	t	Н	╆	t	Н	t	╈	✝		1	+	+	జ	1	$^{-}$	t	t	t	+	t	t		٠	۲	t	╆	╈	1	t	+-	┿	+-	+-	┢	*	ΗCT		

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TABLE 13

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		02001	02001	02001	Screen no.	,		
		001	8	001	Subject no.			
		SAH	SAH	HAS.	initials			
	eguen lemnon	0	0	. 0	Amendment #			
		1	0	Scr	Day			
high	low				Date			
	150	202	230	216	x10³/uL	Platelets	Selecte	Stud
10.70	3.80	5.12	5.58	6.28	L x10³/uL	WBC	d Lab V	Study No. MDXCTLA4-02
75.00	40.50	61.80	59.70	56.60	%	_	alues	DXCT
7.23	1.96	3.16	3.33	3.52	x10³/uL	Neuts	Selected Lab Values Summary	LA4-02
48.50	15.40	30.20	32.30	35.60	8	-	2	
3.00	0.80	1.55	1.80	2.23	x10³/uL	Lymphs		
10.10	2.60	5.00	5.70	5.90	%	3		
0.92	L	0.26	0.32	0.37	x10³/uL	Monos		
6.80		2.30	. . 8	. <u>.</u> 8	*	L		v
0.57		0.12	0.10	0.11	×10³/uL	Eos		
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1129	220	407	502	<u>ස</u>	'nĻ	CD8		
မြ					ram/hr	ESR		
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